

INVITATION TO BID: NO. ITB/COK/029/2019
Technical Specifications of Solar Energy Package (7 KW)

S#	Description of Items	UoM	Quantity
1	Inverter solar hybrid pure sinewave 220v, 50Hz,7000w,100-500v DC input, 48v DC output power factor 99% supply of materials ,installation and with all associated works. Short circuit protection or voltage protection.	PCS	1
2	Solar panel , -335 w poly crystalline or mono crystalline silicon number of cells:60,wattege 335W,VMAX IS 43.4 ,VOC IS 51.9 ,Imax 8.18A,Isc frame is anodized aluminum front glass tempered 3.2 mm, junction box ip65 number of diode 3, class A , supply of materials installation and with all associated work including standard stands	PCS	24
3	Battery Li FePO4 , 12V,100A,1200 cycles in 50% depth of discharge, LiFePo4 supply of material installation and with all associated work	PCS	10
4	Ground conductor 10mm2 stranded bare copper cable type with suitable conduit or PVC pipe supply of materials installation and with all associated work	Meter	20
5	MC4 Connector male and female 1000v DC supply of material installation and with all associated work	PCS	36
6	PV Ground Earth clamp copper with screws supply of material installation and with all associated work	PCS	36
7	DC isolator 16 A supply of material installation and with all associated work	PCS	2
8	DC isolator 25 A supply of material installation and with all associated work	PCS	2
9	1(2CX4mm2 cu) DC cable with suitable conduit or PVC pipe , supply of materials installation and with all associated work	Meter	50
10	1(1CX25mm2 cu) DC cable with suitable conduit or PVC pipe , supply of materials installation and with all associated work	Meter	30
11	1(1CX25mm2 cu) cable with suitable conduit or PVC pipe , supply of materials installation and with all associated work	Meter	40
12	1(4CX35mm2 cu) cable with suitable conduit or PVC pipe , supply of mateeisla instalation and with all associated work	Meter	0
13	16A relay SPDT supply of materials installation and with all associated work	PCS	2
14	16Amp Automatic 1 -phase circuit breaker type b-C supply materials installation and with all associated work	PCS	3
15	25Amp Automatic 1 -phase circuit breaker type b supply materails installation and with all associated work	PCS	1
16	Panel board 110cmx100cmx30cm with main circuit breakers signal light for each phase volt and Ampere meter and with loke 1 mm steel sheet, one coat anticorrosive, two coats of oven paint, supply of materials and installation,	PCS	1
17	Electrical conduit UPVC schedule 40 pipe f50mm (installing underground)supply of material installation and with all associated works.	Meter	25
18	Metal frame for pvc with stand and clamps tighten pvc to roof with all instalation and with all associated works.	PCS	0
19	Cleaning of roof top and installation of stands for each panel	Lumpsum	
20	Wiring to separate the solar energy supply with grid supply	Lumpsum	
21	Battery shelf with 2 floor for 10 pcs	PCS	1
22	Manufacturers standard warranty	year	
23	Sarvice and Maintenance for 1 year.	year	1

J.C. 13 Nov